DECLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATION

×	Original	⊔ Supp	plemental	Ц	Substitute
As a	below named inventor, I here	eby declare	that:		
My r	esidence, post office address	and citizer	ship are as stated belo	w next to my i	name, and
and	ieve I am the original, first ar joint inventor (if more than or h a United States patent is so	e name is l	isted below) of the subj		
1, 7] NAPHTHYRIDINES AS PD	E4 INHIBIT	ORS		
he s	specification of which:				
3	is attached hereto.				
_	was filed on (da	ıy/month/yea	as Application No.		
	and, if this box (□) contai	ns an ×			
	□ was amended on				
		(day/mon	th/year)		
×	was filed as Patent Coope	ration Trea	ty international Applicat	ion No.	
	PCT/EP03/14263	on	15/12/2003		•
			(day/month/year)		
	and, if this box (□) contain	ns an ×			
	• • •		the United States and v	vas accorded	Application No.
		.a. o.a.go			, , , , , , , , , , , , , , , , , , ,
	and, if this box (□) contai				
	was amended, su	bsequent to	entry into the national	stage, on _	/day/acath/you->
					(day/month/year)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) specifically referred to above and, if this application was filed as a Patent Cooperation Treaty international application, by any amendments made during the international stage (including any made under Patent Cooperation Treaty Rule 91, Article 19 and Article 34).

I acknowledge my duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or Patent Cooperation Treaty international filing date of the continuation-in-part application.

I hereby claim the benefit under 35 U.S.C. 119(a)-(d) or (f) or 365(b) of any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate listed below and under 35 U.S.C. 365(a) of any Patent Cooperation Treaty international application(s) designating at least one country other than the United States listed below and have also listed below any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application the priority of which is claimed for that subject matter:

COUNTRY/REGION (OR P.C.T.)	APPLICATION No.	FILING DATE (day/month/year)	PRIORITY CLAIME		IMED				
Great Britain	0229281.1	16/12/2002	×	Yes		No			
				Yes		No			
				Yes		No			
				Yes		No			
				Yes		No			
I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:									
APPLICATION NO.		FILING DATE							

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s) listed below and under 35 U.S.C. 365(c) of any Patent Cooperation Treaty international application(s) designating the United States listed below:

United States	United States	Status (Pending,	International	
Application No.	Filing Date	Abandoned or U.S.	Application No. and Filing	
''	(day/month/year)	Patent No.)	(day/month/y	

If this box (\square) contains an x \boxtimes , I hereby authorize the registered practitioners associated with Customer No. 001095 and any others acting on my behalf to take any action relating to this application based on communications from Corporate Intellectual Property of Novartis International AG, Basle, Switzerland, or an affiliate thereof or a successor thereto, without direct communication from me.

Please send all correspondence relating to this application to the address associated with Customer No. 001095.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole or first joint inventor	Alastair DENHOLM		
Inventor's signature	Mastair Denholn	Date .	5.7. 2005 (day/month/year)
Residence	Horsham, Great Britain 68 N		
Citizenship	citizen of Great Britain Novartis Pharmaceuticals UK Ltd.		
Post Office Address	Patents and Trademarks Wimblehurst Road Horsham, West Sussex RH12 5AB Great Britain		
Full name of second joint inventor, if any	Thomas Hugo KELLER		
Inventor's signature		Date -	(day/month/year)
Residence	Singapore		
Citizenship	citizen of Switzerland		
Post Office Address	Novartis Institute for Tropical Diseases 1 Science Park Road 04-14 The Capricorn, Science Park II Singapore 117528		

Full name of third joint inventor, if any	Clive MCCARTHY		
Inventor's signature	·	Date 	(day/month/year)
Residence	4056 Basel, Switzerland		
Citizenship	citizen of Great Britain		
Post Office Address	Lichtstrasse 35 4056 Basel Switzerland		
Full name of fourth joint inventor, if any	Neil John PRESS		
Inventor's signature		Date .	(day/month/year)
Residence	Horsham, Great Britain		
Citizenship	citizen of Great Britain		
Post Office Address	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB Great Britain		
Full name of fifth joint inventor, if any	Roger John TAYLOR	<u> </u>	
Inventor's signature		Date .	(day/month/year)
Residence	Horsham, Great Britain		
Citizenship	citizen of Great Britain		
Post Office Address	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB Great Britain		

US

DECLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATION

×	Original		Supplemental		Substitute
As a	a below named invento	or, I hereby de	clare that:		
Му	residence, post office a	address and c	itizenship are as state	d below next to my	name, and
and	lieve I am the original joint inventor (if more ch a United States pate	than one nam	ne is listed below) of the	e subject matter wh	
1, 7	NAPHTHYRIDINES A	AS PDE4 INH	BITORS		
the	specification of which:				
	is attached hereto.				
	was filed on	(day/mon	as Application	on No.	
	and, if this box (□) contains an	×		
	☐ was amen	ided on			
		(da	y/month/year)		
×	was filed as Paten	t Cooperation	Treaty international A	pplication No.	
	PCT/EP03/14263		on <u>15/12/2003</u> (day/month/yea	ar)	
	and, if this box (\Box) contains an	×		
	☐ entered th	e national sta	ge in the United States	s and was accorded	Application No.
	and, if this box (□) contains an	x		
	☐ was amen	ided, subsequ	ent to entry into the na	ational stage, on	(day/month/your)
					(day/month/year)

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US

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COUNTRY/REGION (OR P.C.T.)	APPLICATION No.	FILING DATE (day/month/year)	PRIORITY CLAIMEI		IMED				
Great Britain	0229281.1	16/12/2002	×	Yes		No			
				Yes		No			
				Yes		No			
				Yes		No			
				Yes		No			
I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:									
APPLICATION NO.		FILING DATE							

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United States	United States	Status (Pending,	International	
Application No.	Filing Date	Abandoned or U.S.	Application No. and Filing I	
	(day/month/year)	Patent No.)		(day/month/year)

If this box (\square) contains an x \boxtimes , I hereby authorize the registered practitioners associated with Customer No. 001095 and any others acting on my behalf to take any action relating to this application based on communications from Corporate Intellectual Property of Novartis International AG, Basle, Switzerland, or an affiliate thereof or a successor thereto, without direct communication from me.

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Full name of sole or first joint inventor	Alastair DENHOLM		
Inventor's signature		Date	(day/month/year)
Residence	Horsham, Great Britain		
Citizenship	citizen of Great Britain		
Post Office Address	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB Great Britain		·
Full name of second joint inventor, if any	Ţ <u>homas Hugo</u> KELLER		
Inventor's signature	Name Hego W	Date	7 June 2005 (day/month/year)
Residence	Singapore SGX		
Citizenship	citizen of Switzerland		
Post Office Address	23 Jalan Merah Saga The Merasaga 06-01, Singapore 278102 Singapore		

US Case PR/4 -32811A/HO 67

Full name of third joint inventor, if any	Clive MCCARTHY		
Inventor's signature		Date -	(day/month/year)
Residence	Horsham, Great Britain		
Citizenship	citizen of Great Britain		
Post Office Address	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB Great Britain		
Full name of fourth joint inventor, if any	Neil John PRESS		
Inventor's signature		Date .	(day/month/year)
Residence	Horsham, Great Britain		
Citizenship Post Office Address	citizen of Great Britain Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB Great Britain		
Full name of fifth joint inventor, if any	Roger John TAYLOR		
Inventor's signature		Date .	(day/month/year)
Residence	Horsham, Great Britain		
Citizenship	citizen of Great Britain Novartis Horsham Research Centre		
Post Office Address	Wimblehurst Road Horsham West Sussex RH12 5AB Great		

Britain

US Case PR/4 -32811A/HO 67



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×	Original	☐ Supp	lemental		Substitute					
As a	As a below named inventor, I hereby declare that:									
My r	esidence, post office address	and citizen	ship are as stated below next t	to my i	name, and					
and		ne name is li	ntor (if only one name is listed sted below) of the subject mat invention entitled							
1, 7	NAPHTHYRIDINES AS PDE	4 INHIBITO	RS							
the s	specification of which:									
_										
	is attached hereto.									
	was filed on (da	ay/month/yea	as Application No							
	and, if this box (□) contai	ns an 🗴								
	☐ was amended on									
		(day/moni	th/year)							
×	was filed as Patent Coope	eration Treat	ty international Application No.							
	PCT/EP03/14263	on _	15/12/2003 (day/month/year)							
	and, if this box (□) contai	ns an 🗴								
	entered the nation	ıal stage in t	the United States and was acc	orded	Application No.					
	and, if this box (□) contai	ns an 🗴								
	☐ was amended, su	bsequent to	entry into the national stage, o	on _						
					(day/month/year)					

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COUNTRY/REGION (OR P.C.T.)	APPLICATION No.	FILING DATE (day/month/year)	Р	RIORITY	CLA	IMED			
Great Britain	0229281.1	16/12/2002	×	Yes		No			
				Yes		No			
				Yes		No			
				Yes		No			
				Yes		No			
I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:									
APPLICATION NO.		FILING DATE (day/month/year)							

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1	United States	United States	Status (Pending,	Interna	ational
	Application No.	Filing Date	Abandoned or U.S.	Application No.	and Filing Date
	, .	(day/month/year)	Patent No.)		(day/month/year)

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Full name of sole or first joint inventor	Alastair DENHOLM		
Inventor's signature		Date -	(day/month/year)
Residence	Horsham, Great Britain		
Citizenship	citizen of Great Britain Novartis Pharmaceuticals UK Ltd.		
Post Office Address	Patents and Trademarks Wimblehurst Road Horsham, West Sussex RH12 5AB Great Britain		
Full name of second joint inventor, if any	Thomas Hugo KELLER		
Inventor's signature		Date	
		_	(day/month/year)
Residence	Singapore		
Citizenship	citizen of Switzerland		
Post Office Address	Novartis Institute for Tropical Diseases 1 Science Park Road 04-14 The Capricorn, Science Park II Singapore 117528		
	3		

Full name of third joint inventor, if any	Clive MCCARTHY		
Inventor's signature	Mine Mlul	Date -	26 /07/2005 (day/month/year)
Residence	4056 Basel, Switzerland		
Citizenship	citizen of Great Britain		
Post Office Address	Lichtstrasse 35 4056 Basel Switzerland		
Full name of fourth joint inventor, if any	Neil John PRESS		
Inventor's signature		Date -	(day/month/year)
			(day/month/year)
Residence	Horsham, Great Britain		
Citizenship	citizen of Great Britain Novartis Horsham Research Centre		
Post Office Address	Wimblehurst Road Horsham, West Sussex RH12 5AB Great Britain		
Full name of fifth joint inventor, if any	Roger John TAYLOR		
Inventor's signature		Date	
			(day/month/year)
Residence	Horsham, Great Britain		
Citizenship	citizen of Great Britain		
Post Office Address	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussey RH12 5AB Great		

Britain

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×	Original		Supplemental		Substitute
As a	a below named inve	intor, I hereby de	eclare that:		
Му	residence, post offic	ce address and	citizenship are as stated	below next to my	name, and
and	joint inventor (if me	ore than one na	e inventor (if only one n me is listed below) of th ght on the invention entit	ne subject matter	
[1, 7	7] NAPHTHYRIDIN	ES AS PDE4 IN	HIBITORS		•
the	specification of whic	ch:			
	is attached here	eto.			
	was filed on	(day/mon	as Application	No	
	and, if this box ((□) contains an	×		
	□ was am	ended on			
		(da	y/month/year)		
×	was filed as Pat	tent Cooperation	Treaty international Ap	plication No.	
	PCT/EP03/1426	63	on	_	
	and, if this box ((□) contains an	×		
	☐ entered	the national sta	ge in the United States	and was accorded	Application No.
	and, if this box ((□) contains an	×		
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Great Britain	0229281.1	16/12/2002	×	Yes		No
				Yes		No
		,		Yes		No
				Yes		No
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Full name of sole or first joint inventor	Alastair DENHOLM		
Inventor's signature		Date _	(day/month/year)
Residence	Horsham, Great Britain		
Citizenship	citizen of Great Britain		
Post Office Address	Novartis Pharmaceuticals UK Ltd. Patents and Trademarks Wimblehurst Road Horsham, West Sussex RH12 5AB Great Britain	•	
Full name of second joint inventor, if any	Thomas Hugo KELLER		
Inventor's signature		Date	
		_	(day/month/year)
Residence	Singapore		
Citizenship	citizen of Switzerland		
Post Office Address	Novartis Institute for Tropical Diseases 1 Science Park Road 04-14 The Capricorn, Science Park II Singapore 117528		

US Case PR/4 -32811A/HO 67

Full name of third joint inventor, if any	Clive MCCARTHY	•	
Inventor's signature		Date	(day/month/your)
			(day/month/year)
Residence	4056 Basel, Switzerland		
Citizenship	citizen of Great Britain		
Post Office Address	Lichtstrasse 35 4056 Basel Switzerland		
Full name of fourth joint inventor, if any	Neil John PRESS		
Inventor's signature	Nest Who Press	Date -	Str July 2005 (day/month/year)
Residence	Horsham, Great Britain		
Citizenship	citizen of Great Britain		
Post Office Address	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB Great Britain		
Full name of fifth joint inventor, if any	Roger John TAYLOR		
Inventor's signature	Roger John Taylor.	Date	5 th July 200 (day/month/year)
Residence	Horsham, Great Britain GB		(day/monaryear)
Citizenship	citizen of Great Britain		
Post Office Address	Novartis Horsham Research Centre Wimblehurst Road Horsham, West Sussex RH12 5AB Great Britain		